

# Global 5-Hydroxytryptophan (5-HTP) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global 5-Hydroxytryptophan (5-HTP) market size is expected to reach \$ 140 million by 2032, rising at a market growth of 9.4% CAGR during the forecast period (2026-2032).

5-hydroxytryptophan (5-HTP) is an intermediate product generated during tryptophan metabolism and is a direct precursor for the synthesis of serotonin (5-HT) in the body. 5-HTP participates in regulating mood, sleep, appetite, and nervous system function by supplementing serotonin levels. Due to its potential role in alleviating depression, anxiety, insomnia, and appetite control, 5-HTP is widely used in dietary supplements. Its main source is plant extraction, especially the African plant *Griffonia simplicifolia* seeds. It should be noted that high-dose use may cause side effects such as nausea or gastrointestinal discomfort, and should be taken under professional guidance. In 2024, global 5-Hydroxytryptophan (5-HTP) production reached approximately 587.99 MT, with an average global market price of around US\$ 114 per kg. 5-hydroxytryptophan is usually produced through specialized fermentation/extraction+refining equipment using African black pod tree seed extraction or engineering bacterial fermentation routes. The annual effective production capacity of a single mature production line is about 100-500 tons. The upstream mainly relies on black pod tree seeds or starch sugar sources, fermentation nutrients, and fine chemical reagents, while the downstream faces health products, functional foods, and pharmaceutical intermediate enterprises. Raw materials and fermentation/extraction consumables account for about 50-60% of the factory price in the cost structure, energy labor and equipment depreciation is about 15-20%, management and sales expenses are about 5-10%, and the comprehensive gross profit margin of the enterprise is roughly in the range of 20-30%. The high-purity pharmaceutical grade is slightly higher, and the general food grade is slightly lower.

At present, the method of extracting 5-HTP from natural products cannot meet market demand due to high cost and lack of raw materials. Chemical synthesis does not rely on natural products, however, due to the tedious steps and required conditions involved, it is difficult to synthesize 5-HTP economically and effectively. With the development of biotechnology such as bioinformatics, genetics, metabolic engineering, biochemistry, and protein engineering, new strategies have emerged for synthesizing 5-HTP using microorganisms. Microbial synthesis has the advantages of short production cycle, low cost, high yield, and easy large-scale production, and has great application prospects.

This report studies the global 5-Hydroxytryptophan (5-HTP) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for 5-Hydroxytryptophan (5-HTP) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of 5-Hydroxytryptophan (5-HTP) that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global 5-Hydroxytryptophan (5-HTP) total production and demand, 2021-2032, (Tons)

Global 5-Hydroxytryptophan (5-HTP) total production value, 2021-2032, (USD Million)

Global 5-Hydroxytryptophan (5-HTP) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global 5-Hydroxytryptophan (5-HTP) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: 5-Hydroxytryptophan (5-HTP) domestic production, consumption, key domestic manufacturers and share

Global 5-Hydroxytryptophan (5-HTP) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global 5-Hydroxytryptophan (5-HTP) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global 5-Hydroxytryptophan (5-HTP) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global 5-Hydroxytryptophan (5-HTP) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include VDK NaturaSyn, Xi'an Le Sen Bio-

technology, BannerBio, The SunTree (Xiamen) Biological Engineering, Linnea SA, Hunan Huakang Biotech, Changsha Staherb Natural Ingredients, Shaanxi jiahe Phytochem, Shaanxi Honest Technology, NaturMed Scientific, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World 5-Hydroxytryptophan (5-HTP) market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global 5-Hydroxytryptophan (5-HTP) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global 5-Hydroxytryptophan (5-HTP) Market, Segmentation by Type:

Cosmetic Grade

Pharmaceutical Grade

#### Global 5-Hydroxytryptophan (5-HTP) Market, Segmentation by Synthetic Process:

Natural Extraction

Microbial Fermentation

#### Global 5-Hydroxytryptophan (5-HTP) Market, Segmentation by Purity:

Purity 98%

Purity 99%

Others

#### Global 5-Hydroxytryptophan (5-HTP) Market, Segmentation by Application:

Health Care Product

Cosmetics Field

Pharmaceutical Industry

Other

#### Companies Profiled:

VDK NaturaSyn

Xi'an Le Sen Bio-technology

BannerBio

The SunTree (Xiamen) Biological Engineering

Linnea SA

Hunan Huakang Biotech

Changsha Staherb Natural Ingredients

Shaanxi jiahe Phytochem

Shaanxi Honest Technology

NaturMed Scientific

**Key Questions Answered:**

1. How big is the global 5-Hydroxytryptophan (5-HTP) market?
2. What is the demand of the global 5-Hydroxytryptophan (5-HTP) market?
3. What is the year over year growth of the global 5-Hydroxytryptophan (5-HTP) market?
4. What is the production and production value of the global 5-Hydroxytryptophan (5-HTP) market?
5. Who are the key producers in the global 5-Hydroxytryptophan (5-HTP) market?
6. What are the growth factors driving the market demand?

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